

PATCHED GENES AND THEIR USE

ABSTRACT OF THE INVENTION

Invertebrate and vertebrate *patched* genes are provided, including the mouse and human *patched* genes, as well as methods for isolation of related genes, where the genes may be of different species or in the same family. Having the ability to regulate the expression of the *patched* gene, allows for the elucidation of embryonic development, cellular regulation associated with signal transduction by the *patched* gene, the identification of agonist and antagonist to signal transduction, identification of ligands for binding to *patched*, isolation of the ligands, and assaying for levels of transcription and expression of the *patched* gene.

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